

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK

ARTEC EUROPE S.À.R.L.,

Plaintiff,

v.

SHENZHEN CREALITY 3D
TECHNOLOGY CO., LTD. and
SHENZHEN JIMUYIDA TECHNOLOGY
CO., LTD.,

Defendants.

Case No. 1:22-1676 (OEM)(VMS)

**DECLARATION OF RICHARD DE
BODO IN SUPPORT OF PLAINTIFF
ARTEC EUROPE S.À.R.L.'S
NOTICE OF MOTION AND
MEMORANDUM OF LAW IN
SUPPORT OF MOTION FOR
PROTECTIVE ORDER**

[Filed concurrently with Notice of
Motion and Memorandum of Law;
Declaration of Alexandr Osipov; and
[Proposed] Order]

DECLARATION OF RICHARD DE BODO

I, Richard de Bodo, declare as follows:

1. I am a partner at the law firm of Rimón PC, counsel of record for Plaintiff Artec Europe S.À.R.L (“Artec”). I make this Declaration in support of Artec’s motion for a protective order (the “Motion”) pursuant to Rule 26(c) of the Federal Rules of Civil Procedure and Paragraph 5(e) of the Protective Order in this case. (Dkt. 71-1). I make this Declaration based on my personal knowledge, unless stated on information and belief, and if called upon to testify to those facts, I could and would competently do so.

2. On January 18, 2023, the Court entered a protective order stipulated by the parties (“Protective Order”), which governs the disclosure of confidential information in this litigation. (Dkt. 71-1).

3. The Protective Order categorizes documents in terms of their confidentiality. Documents may be designated as (1) “CONFIDENTIAL,”; (2) “RESTRICTED—ATTORNEYS’ EYES ONLY,”; and (3) “RESTRICTED CONFIDENTIAL SOURCE CODE” (Dkt. 71-1). Paragraph 5(e) of the Protective Order states that a party may only disclose material designated as CONFIDENTIAL to an outside expert upon the expert’s signing the Undertaking, as defined in the Protective Order, and the provision of the expert’s curriculum vitae to the producing party. Further, the producing party may object to the disclosure and may seek a protective order if the parties cannot reach resolution. (*Id.*, ¶ 5(e)). Documents designated with the more protective labels of “RESTRICTED—ATTORNEYS’ EYES ONLY” or “RESTRICTED—CONFIDENTIAL SOURCE CODE,” are subject to the terms of Paragraph 5(e), and are also subject to other restrictions under the Protective Order. (*Id.*, ¶¶ 8-11).

4. On November 18, 2024, Defendants notified Artec of their intention to disclose protected material, including Artec’s highly confidential trade secrets and sensitive technical

information, to their expert witness, Dr. Mohit Gupta, pursuant to Paragraph 5(e) of the Protective Order. Including in their email was a copy of Dr. Gupta's most current curriculum vitae. A true and correct copy of Defendants' November 18 email and Dr. Gupta's signed undertaking are attached hereto as **Exhibit B**.

5. According to Dr. Gupta's curriculum vitae, Dr. Gupta is the Co-Founder of and Scientific Advisor to Ubicept, Inc., a Research Scientist at Cruise LLC, and the Director and an active participant and inventor at WISIONLab. A true and correct copy of Dr. Gupta's curriculum vitae is attached hereto as **Exhibit A**. Each of these companies and entities competes directly and/or indirectly with Artec.

6. In light of Dr. Gupta's affiliations and roles at these companies and entities, on November 28, 2024, I emailed counsel for Defendants to object, on behalf of Artec, to Defendants' intended disclosure of confidential and sensitive technical information to Dr. Gupta. On or about November 29, 2024, I wrote to counsel again to further explain Artec's position on the disclosure of this information. True and correct copies of my November 28 and November 29 emails are attached hereto as **Exhibit C**.

7. The parties continued to communicate, and Artec ultimately proposed as a compromise that it would agree that Dr. Gupta could review Artec documents designated as "Confidential," but not review documents designated "Restricted – Attorneys Eyes Only" or "Restricted Confidential Source Code." Defendants declined this proposal.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 13th day of December, 2024, at Los Angeles, California.

Dated: December 13, 2024

/s/ Richard de Bodo
Richard de Bodo

EXHIBIT A

MOHIT GUPTA

Computer Sciences Department, University of Wisconsin-Madison

Lab website: <http://wisionlab.cs.wisc.edu/>

Research Interests

Computer Vision, Computational Imaging

Education

Ph.D. in Robotics, Carnegie Mellon University	2005 - 2011
M.S. in Computer Science, Stony Brook University	2003 – 2005
B.Tech. in Computer Sc. and Engineering, Indian Insitute of Technology, Delhi	1999 – 2003

Work Experience

Associate Professor, University of Wisconsin-Madison	2022 -
Assistant Professor, University of Wisconsin-Madison	2016 - 2022
Research Scientist, Cruise LLC	2023 -
Co-founder and Scientific Advisor, Ubicept Inc.	2021 -
Post-doctoral Research Scientist, Columbia University	2011 - 2015
Research Intern, Mitsubishi Electric Research Labs	Summer 2009, 2010

Awards and Honors

Best Demo Award, ACM SIGGRAPH Emerging Technologies (E-Tech)	2024
Sony Faculty Innovation Award	2023, 2022, 21, 20
Marr Prize Honorable Mention, IEEE Int. Conf. on Computer Vision (ICCV)	2019
NSF CAREER Award	2019

Finalist, Most Influential Research Category, AutoSens Conference Awards	2019
Paper Selected for IJCV Special Issue on Best Papers of ECCV	2018
Keynote Talk, Workshop on Visual Odometry and Applications, IEEE CVPR	2023
Keynote Talk, Workshop on Computational Cameras and Displays, IEEE CVPR	2022
Keynote Talk, Workshop on Mobile Intelligent Photography and Imaging, ECCV	2022
Plenary Talk, Int. Conf. on Quality Control by Artificial Vision (Tokyo)	2017
Keynote Talk, Workshop on Computational Cameras and Displays, IEEE CVPR	2014
Best Paper Honorable Mention, IEEE Int. Conf. on Computational Photography	2014

Selected Advisee Awards

Sizhuo Ma: Best PhD Thesis Award, CS Department, UW-Madison	2022
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Professional Activities

Organization

Program Chair: IEEE International Conf. on Computational Photography (ICCP) 2023, Madison

Program Chair: IEEE International Conf. on Computational Photography (ICCP) 2019, Tokyo

Workshops Chair: IEEE CVPR 2022

Program Chair: Workshop on Computational Cameras and Displays (with IEEE CVPR 2017, 2018)

Finance Chair: IEEE ICCP 2018, Demos and Posters Chair, IEEE ICCP 2016

Program Committees and Editorial Boards

Best Paper Awards Committee: IEEE CVPR 2022

Area Chair (Program Committee): NeurIPS 2024, CVPR 2024, ECCV 2024, ICCV 2023, CVPR 2023, WACV 2023, ECCV 2022, ICCV 2021, CVPR 2021, SIGGRAPH Asia 2018, Pacific Graphics 2018

Guest Editor: IJCV Special Issue on Computational Photography (2017-2018)

Professional Service Awards

Outstanding reviewer award, ECCV 2020

Tutorials

Co-organized (invited) tutorial on computational imaging at ICIP 2015, ICIP 2016

Co-organized tutorial on time-of-flight (ToF) imaging at ICCV 2015

Co-organized tutorial on compressive sensing of videos at CVPR 2012

Co-organized the symposium on volumetric scattering at CVPR 2007

Reviewing

Reviewer for Nature, Nature Communications, CACM, SIGGRAPH, SIGGRAPH Asia, PAMI, IJCV, TIP, ICCV, CVPR, ECCV, ICCP

Publications

Conference and Journal Publications: ¹ ²

2024

Light-in-Flight for a World-in-Motion

Jongho Lee^S, Ryan J. Suess^C, and **Mohit Gupta**

ECCV 2024

Photon Inhibition for Energy-Efficient Single-Photon Imaging

Lucas J. Koerner^C, Shantanu Gupta^S, Atul Ingle^C, and **Mohit Gupta**

ECCV 2024, * oral presentation

Light Codes for Fast Two-Way Human-Centric Visual Communication

Mohit Gupta, Jian Wang^C, Karl Bayer^C, Shree Nayar^C

ACM Transactions on Graphics (presented at SIGGRAPH 2024)

A Live Demo of Single-Photon Imaging and Applications

Sacha Jungerman^S, Varun Sundar^S, and **Mohit Gupta**

ACM SIGGRAPH 2024 Emerging Technologies (E-Tech); IEEE CVPR Demos, Best Demo (best-in-show) Award at SIGGRAPH E-Tech

Using a Distance Sensor to Detect Deviations in a Planar Surface

Carter Sifferman^S, William Sun^C, **Mohit Gupta**, Michael Gleicher^C

IEEE Robotics and Automation Letters (RAL); Proc. IEEE ICRA 2025

Generalized Event Cameras

Varun Sundar^S, Matthew Dutson^S, A. Ardelean^C, C. Bruschini^C, Edoardo Charbon^C, and **Mohit Gupta**

IEEE/CVF CVPR 2024

Towards 3D Vision with Low-Cost Single-Photon Cameras

Fangzhou Mu^{*C}, Carter Sifferman^{*S}, Sacha Jungerman^S, Yiquan Li^C, Mark Han^C, Michael Gleicher^C,

Mohit Gupta, Yin Li^C

IEEE/CVF CVPR 2024

2023

CASPI: Collaborative Photon Processing for Active Single-Photon Imaging

Jongho Lee^S, Atul Ingle^C, Jenu Chacko^C, Kevin Elicieri^C, and **Mohit Gupta**

Nature Communications

¹Collaborators are denoted by^C, thesis and post-doc advisors by^A, students and post-docs under my supervision by^S, and students/post-docs under the supervision of others by^O.

²ICCV, ECCV and CVPR are the top three conferences in computer vision, with acceptance rates typically around 25%. A few selected papers (typically 2 – 4%) are awarded an oral presentation. ACM Transactions on Graphics (TOG) and ACM SIGGRAPH are the top journal/conference in computer graphics, with an acceptance rate around 20%. IEEE PAMI, IJCV, and IEEE TIP are the top journals in computer vision and image processing. 3DV and ICCP are smaller conference for 3D vision and computational imaging and photography. Acceptance rates are typically around 30 – 40%.

Seeing Photons in Color

Sizhuo Ma^S, Varun Sundar^S, Paul Mos^C, Claudio Bruschini^C, Edoardo Charbon^C, and **Mohit Gupta**
ACM Transactions on Graphics (SIGGRAPH 2023)

SoDaCam: Software-defined Cameras via Single-Photon Imaging

Varun Sundar^S, Andrei Ardelean^C, Tristan Swedish^C, C Bruschini^C, Edoardo Charbon^C, and **Mohit Gupta**
IEEE ICCV 2023, * oral presentation

Eventful Transformers: Leveraging Temporal Redundancy in Vision Transformers

Matthew Dutson^S, Yin Li^C, and **Mohit Gupta**
IEEE ICCV 2023

Computational 3D Imaging with Position Sensors

Jeremy Klotz^C, **Mohit Gupta**, Aswin Sankaranarayanan^C
IEEE ICCV 2023, * oral presentation

Learned Compressive Representations for Single-Photon 3D Imaging

Felipe Gutierrez-Barragan^S, Fangzhou Mu^C, Andrei Ardelean^C, Atul Ingle^C, Claudio Bruschini^C, Edoardo Charbon^C, Yin Li^C, **Mohit Gupta**, Andreas Velten^C
IEEE ICCV 2023

Eulerian Single-Photon Vision

Shantanu Gupta^S, and **Mohit Gupta**
IEEE ICCV 2023

Panoramas from Photons

Sacha Jungerman^S, Atul Ingle^C, and **Mohit Gupta**
IEEE ICCV 2023

Mitigating AC and DC Interference in Multi-ToF-Camera Environments

Jongho Lee^S, and **Mohit Gupta**
IEEE Trans. on Pattern Analysis and Machine Intelligence

Unlocking the Performance of Proximity Sensors by Transient Histograms

Carter Sifferman^S, Yeping Wang^C, **Mohit Gupta**, and Michael Gleicher^C
IEEE Robotics and Automation Letters (RAL); Proc. IEEE ICRA 2024

When Two Cameras Are a Crowd (Understanding Interference Across Multiple Active Cameras)

Jongho Lee^S, **Mohit Gupta**, Bhuvana Krishnaswamy^C, and Suman Banerjee^C
Communications of the ACM

Burst Vision Using Single-Photon Cameras

Sizhuo Ma^S, Paul Mos^C, Edoardo Charbon^C, and **Mohit Gupta**
IEEE/CVF WACV 2023

Spike-Based Anytime Perception
Matt Dutson^S, Yin Li^C, and **Mohit Gupta**
IEEE/CVF WACV 2023

QFaR: Location-Guided Scanning of Visual Codes from Long Distances
Sizhuo Ma^S, J. Wang^C, W. Chen^C, S. Banerjee^C, **Mohit Gupta**, S. Nayar^C
ACM MobiCom 2023

2022

Event Neural Networks
Matt Dutson^S, Yin Li^C, and **Mohit Gupta**
ECCV 2022

3D Scene Inference from Transient Histograms
Sacha Jungerman^S, Atul Ingle^C, Yin Li^C, and **Mohit Gupta**
ECCV 2022

Robust Scene Inference under Noise-Blur Dual Corruptions
Bhavya Goyal^S, JF Lalonde^C, Yin Li^C, and **Mohit Gupta**
IEEE ICCP 2022

Geometric Calibration of Single-Pixel Distance Sensors
Carter Sifferman^S, Dev Mehrotra^S, **Mohit Gupta**, and Michael Gleicher^C
IEEE Robotics and Automation Letters (RAL); Proc. IEEE/RSJ IROS 2022

Single-Photon Structured Light
Varun Sundar^S, Sizhuo Ma^S, Aswin Sankaranarayanan^C, and **Mohit Gupta**
IEEE/CVF CVPR 2022

Compressive Single-Photon 3D Cameras
Felipe Gutierrez-Barragan^S, Atul Ingle^C, Trevor Seets^C, **Mohit Gupta**, and Andreas Velten^C
IEEE/CVF CVPR 2022

Single-Photon Camera Guided Extreme Dynamic Range Imaging
Yuhao Liu^C, Felipe Gutierrez-Barragan^S, Atul Ingle^C, **Mohit Gupta**, and Andreas Velten^C
IEEE/CVF WACV 2022

iToF2dToF: A Robust and Flexible Representation for Data-driven Time-of-Flight Imaging
Felipe Gutierrez-Barragan^S, Huaijin Chen^C, **Mohit Gupta**, Andreas Velten^C, Jinwei Gu^C
IEEE Transactions on Computational Imaging 2022

2021

Photon-Starved Scene Inference using Single Photon Cameras
Bhavya Goyal^S, and **Mohit Gupta**
IEEE ICCV 2021

Blocks-World Cameras
Jongho Lee^S, and **Mohit Gupta**
IEEE/CVF CVPR 2021, * oral presentation

Passive Inter-Photon Imaging
Atul Ingle^S, T Seets^C, M Buttafava^C, Shantanu Gupta^S, A Tosi^C, Andreas Velten^C, and **Mohit Gupta**
IEEE/CVF CVPR 2021, * oral presentation

Invisible Perturbations: Physical Adversarial Examples Exploiting the Rolling Shutter Effect
Athena Sayles^C, Ashish Hooda^C, **Mohit Gupta**, Rahul Chatterjee^C, and Earlene Fernandes^C
IEEE/CVF CVPR 2021

2020

Quanta Burst Photography
Sizhuo Ma^S, Shantanu Gupta^S, Arin Ulku^C, Claudio Bruschini^C, Edoardo Charbon^C, and **Mohit Gupta**
ACM Transactions on Graphics (SIGGRAPH 2020)

Smart Time-Multiplexing of Quads Solves the Multicamera Interference Problem
Tomislav Pribanic^C, Tomislav Petkovi^C, David Bojani^C, Kristijan Bartol^C, and **Mohit Gupta**
International Conference on 3D Vision (3DV) 2020

Inertial Safety from Structured Light
Sizhuo Ma^S, and **Mohit Gupta**
ECCV 2020

2019

Asynchronous Single-Photon 3D Imaging
Anant Gupta^S, Atul Ingle^S, and **Mohit Gupta**
IEEE ICCV 2019, * oral presentation, * Marr Prize Honorable Mention

Stochastic Exposure Coding for Handling Multi-ToF-Camera Interference
Jongho Lee^S, and **Mohit Gupta**
IEEE ICCV 2019, * oral presentation

Micro-Baseline Structured Light
Viswa Venkata^{SC}, Jian Wang^C, **Mohit Gupta**, and Shree Nayar^C
IEEE ICCV 2019

Practical Coding Function Design for Time-of-Flight Imaging
Felipe Gutierrez-Barragan^s, Syed Reza^c, Andreas Velten^c, and **Mohit Gupta**
IEEE/CVF CVPR 2019

Photon-Flooded Single Photon 3D Cameras
Anant Gupta^s, Atul Ingle^s, Andreas Velten^c, and **Mohit Gupta**
IEEE/CVF CVPR 2019, * oral presentation

Passive High Flux Imaging with Single Photon Cameras
Atul Ingle^s, Andreas Velten^c and **Mohit Gupta**
IEEE/CVF CVPR 2019, * oral presentation

Differential Scene Flow from Light-Field Gradients
Sizhuo Ma^s, Brandon Smith^s, and **Mohit Gupta**
International Journal of Computer Vision (IJCV 2019)
Special Issue on Best Papers of ECCV 2018

Coding Scheme Optimization for Fast Fluorescence Lifetime Imaging
Jongho Lee^s, JV Chacko^o, B Dai^o, SA Reza^o, AK Sagar^o, K Eliceiri^c, A Velten^c, and **Mohit Gupta**
ACM Transactions on Graphics (ACM TOG 2019), presented at SIGGRAPH 2019

2018

A Geometric Perspective on Structured Light Coding
Mohit Gupta, and Nikhil Nakhate^s
ECCV 2018

3D Scene Flow from 4D Light Field Gradients
Sizhuo Ma^s, Brandon Smith^s, and **Mohit Gupta**
ECCV 2018, * oral presentation; * Selected for IJCV Special issue on 'Best of ECCV'

Tracking Multiple Objects Outside the Line of Sight using Speckle Imaging
Brandon Smith^s, Matt O'Toole^c, and **Mohit Gupta**
IEEE/CVF CVPR 2018, * spotlight oral presentation

Trapping Light for Time-of-Flight
Ruilin Xu^o, **Mohit Gupta**, and Shree Nayar^c
IEEE/CVF CVPR 2018, * oral presentation

What are Optimal Coding Functions for Time-of-Flight Imaging?
Mohit Gupta, Andreas Velten^c, Shree Nayar^c, and Eric Breitbach^c
ACM Transactions on Graphics (ACM TOG 2018), presented at SIGGRAPH 2018

SH-ToF: Micro Resolution Time-of-Flight Imaging with Superheterodyne Interferometry
Fengqiang Li^o, F Willomitzer^o, P Rangarajan^c, **Mohit Gupta**, Andreas Velten^c, Oliver Cossairt^c
IEEE ICCP 2018

2016-17

CoLux: Multi-Object 3D Micro-Motion Analysis Using Speckle Imaging
Brandon Smith^S, Pratham Desai^S, Vishal Agrawal^S, and **Mohit Gupta**
ACM Transactions on Graphics (SIGGRAPH 2017)

High-depth-resolution Range Imaging with Multiple-wavelength Superheterodyne Interferometry using 1550-nm Lasers
Fengqiang Li^O, Joshua Yablon^O, Andreas Velten^C, **Mohit Gupta**, and Oliver Cossairt^C
Applied Optics 2017

Dual Structured Light 3D using a 1D Sensor
Jian Wang^O, Aswin Sankaranarayanan^C, **Mohit Gupta**, and Srinivasa Narasimhan^C
ECCV 2016, * oral presentation

DisCo: Display-Camera Communication Using Rolling Shutter Sensors
Kensei Jo^O, **Mohit Gupta**, and Shree Nayar^a
ACM Transactions on Graphics (ACM TOG 2016), presented at SIGGRAPH 2016

2015 and Earlier

SpeDo: 6 DOF Ego-Motion Sensor Using Speckle Defocus Imaging
Kensei Jo^O, **Mohit Gupta**, and Shree Nayar^a
ICCV 2015

Phasor Imaging: A Generalization of Correlation Based Time-of-Flight Imaging
Mohit Gupta, Shree Nayar^a, Matthias Hullin^C, and Jaime Martin^C
ACM Transactions on Graphics (ACM TOG 2015), presented at SIGGRAPH 2015

LiSens: A Scalable Architecture for Video Compressive Sensing
Jian Wang^O, **Mohit Gupta**, and Aswin Sankaranarayanan^C
ICCP 2015

MC3D: Motion Contrast 3D Scanning
Nathan Matsuda^O, Oliver Cossairt^C, and **Mohit Gupta**
ICCP 2015

Digital Refocusing with Incoherent Holography
Oliver Cossairt, Nathan Matsuda and Mohit Gupta
ICCP 2014
*** Best paper honorable mention**

Recovering Scene Geometry Under Wavy Fluid Via Distortion And Defocus Analysis
Mingjie Zhang, Xing Lin, Mohit Gupta, Jinli Suo and Qionghai Dai
ECCV 2014

Fibonacci Exposure Bracketing for High Dynamic Range Imaging
Mohit Gupta, Daisuke Iso and Shree Nayar
ICCV 2013

Structured Light in Sunlight
Mohit Gupta, Qi Yin and Shree Nayar
ICCV 2013

Efficient Space-Time Sampling with Pixel-wise Coded Exposure for High Speed Imaging
Dengyu Liu, Jinwei Gu, Yasunobu Hitomi, Mohit Gupta, Tomoo Mitsunaga and Shree Nayar
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI 2013)

Micro Phase Shifting
Mohit Gupta and Shree Nayar
CVPR 2012, * oral presentation

Diffuse Structured Light
Shree Nayar and Mohit Gupta
ICCP 2012

3D Scanning in the Presence of Interreflections, Subsurface Scattering and Defocus
Mohit Gupta, Amit Agrawal, Ashok Veeraraghavan and Srinivasa Narasimhan
International Journal of Computer Vision (IJCV 2012)

When Does Computational Imaging Improve Performance?
Oliver Cossairt, Mohit Gupta and Shree Nayar
IEEE Transactions on Image Processing (TIP 2012)

Video from a Single Exposure Coded Photograph using a Learned Over-Complete Dictionary
Yasunobu Hitomi, Jinwei Gu, Mohit Gupta and Shree Nayar
ICCV 2011

Multiplexed Illumination for Scene Recovery in the Presence of Global Illumination
Jinwei Gu, Toshihiro Kobayashi, Mohit Gupta and Shree Nayar
ICCV 2011, * oral presentation

Structured Light 3D Scanning Under Global Illumination
Mohit Gupta, Amit Agrawal, Ashok Veeraraghavan and Srinivasa Narasimhan
CVPR 2011

A Combined Theory of Defocused Illumination and Global Light Transport
Mohit Gupta, Yuandong Tian, Srinivasa Narasimhan and Li Zhang
International Journal of Computer Vision (IJCV 2011)

Flexible Voxels for Motion-Aware Videography
Mohit Gupta, Amit Agrawal, Ashok Veeraraghavan and Srinivasa Narasimhan
ECCV 2010

Optimal Coded Sampling for Temporal Super-Resolution
Amit Agrawal, Mohit Gupta, Ashok Veeraraghavan and Srinivasa Narasimhan
CVPR 2010

(De) Focusing on Global Light Transport for Active Scene Recovery
Mohit Gupta, Yuandong Tian, Srinivasa Narasimhan and Li Zhang
CVPR 2009, * oral presentation

On Controlling Light Transport in Poor Visibility Environments
Mohit Gupta, Srinivasa Narasimhan and Yoav Schechner
CVPR 2008

High Resolution Tracking of Non-Rigid 3D Motion Using Harmonic Maps
Yang Wang, Mohit Gupta, Song Zhang, Sen Wang, Xianfeng Gu, Dimitris Samaras and Peisen Huang
International Journal of Computer Vision (IJCV 2008)

Legendre Fluids: Reduced Space Modeling and Rendering of Participating Media
Mohit Gupta and Srinivasa Narasimhan
Eurographics/ ACM SIGGRAPH Symposium on Computer Animation (SCA 2007)

Acquiring Scattering Properties of Participating Media by Dilution
Srinivasa Narasimhan, Mohit Gupta, Craig Donner, Ravi Ramamoorthi, Shree Nayar, Henrik Wann Jensen
ACM Transactions on Graphics (SIGGRAPH 2006)

High Resolution Tracking of Non-Rigid 3D Motion Using Harmonic Maps
Yang Wang, Mohit Gupta, Song Zhang, Sen Wang, Xianfeng Gu, Dimitris Samaras and Peisen Huang
ICCV 2005, * oral presentation

Multilevel Modeling and Rendering of Architectural Scenes
A. Kushal, G. Chanda, K. Srivastava, M. Gupta, S. Sanyal, T.V.N. Sri Ram, P. Kalra and S. Banerjee
Eurographics 2003

Invited Book Chapters:

Depth Recovery from Time-of-Flight Imaging
Mohit Gupta
Coded Optical Imaging, 2024, Publisher: Springer Nature

Shape From Scatter
Mohit Gupta
Computer Vision: A Reference Guide, 2014, Publisher: Springer

Performance Limits for Motion Deblurring Cameras
Oliver Cossairt and Mohit Gupta
Motion Deblurring: Algorithms and Systems, 2014, Publisher: Cambridge University Press

Patents

Systems, Methods, And Media For Generating And Using Spiking Neural Networks With Improved Efficiency

Inventors: Matthew Dutson and Mohit Gupta

US Patent Application P210141US01, Filing Date: April 2021

Systems, Methods, And Media For High Dynamic Range Imaging using Single-Photon and Conventional Image sensor Data

Inventors: Felipe Gutierrez-Barragan, Yuhao Liu, Atul Ingle, Mohit Gupta and Andreas Velten

US Patent 11,758,297 B2

Systems, Methods, And Media For Directly Recovering Planar Surfaces In A Scene Using Structured Light

Inventors: Jongho Lee and Mohit Gupta

US Patent 11398085

Systems, Methods, And Media For High Dynamic Range Quanta Burst Imaging

Inventors: Sizhuo Ma and Mohit Gupta

US Patent 11170549

Systems, Methods, And Media For Stochastic Exposure Coding That Mitigates Multi-Camera Interference In Continuous Wave Time-Of-Flight Imaging

Inventors: Jongho Lee and Mohit Gupta

US Patent 11474249

Systems, methods, and media for asynchronous single photon Depth imaging with improved precision in ambient light

Inventors: Anant Gupta, Atul Ingle and Mohit Gupta

US Patent Application P190244US01, Filing Date: June 2019

Systems, Methods, And Media For Single Photon Depth Imaging With Improved Precision In Ambient Light

Inventors: Anant Gupta, Atul Ingle, Andreas Velten and Mohit Gupta

US patent application P190137US01, Filing Date: March 2019

Low Power Light Wave Communication for Mobile and Wearable Devices

Inventors: Shree K. Nayar, Mikhail Fridberg, Mohit Gupta

Patent granted, August 2021: US 11,082,129 B1

Augmented Reality System using Structured Light

Inventors: Mohit Gupta, Shree K. Nayar, Viswanath Saragadam

Patent granted, February 2021: US 10,909,373 B1

Systems, methods, and media for encoding structured light imaging patterns and estimating depths in a scene

Inventor: Mohit Gupta

Patent granted, October 2020: US 10818023

Systems, Methods And, Media For Determining Object Motion In Three Dimensions From Light Field Image Data

Inventors: Mohit Gupta, Sizhuo Ma, Brandon Smith

Patent granted, October 2019: US 10706564

Systems, methods, and media for high dynamic range imaging using dead-time-limited single photon detectors

Inventors: Mohit Gupta, Atul Ingle, Andreas Velten

Patent granted, April 2020: US 10616512

Systems, methods, and media for encoding and decoding signals used in time-of-flight imaging

Inventors: Felipe Gutierrez, Mohit Gupta, Eric Breitbach, Andreas Velten, Shree Nayar

Patent granted, November 2020: US 10,739,447 B2

*** Licensed**

Systems, methods, and media for encoding and decoding signals used in time-of-flight imaging

Inventors: Mohit Gupta, Eric Breitbach, Andreas Velten, Shree Nayar

Patent granted, May 2020: US 10,645,367 B2

*** Licensed**

Systems, methods, and media for determining object motion in 3D using speckle images

Inventors: Mohit Gupta, Brandon Smith, Pratham Desai, Vishal Agarwal

Patent granted, December 2018: US 10,152,798 B2

** Nominated as one of six finalists out of 400 applications in WARF Innovation Awards 2017*

Systems, methods, and media for performing shape measurement

Inventors: Mohit Gupta, Shree Nayar

Patent granted, May 2017: US 2015/0176982 A1

*** Licensed and Productized**

Methods, systems, and media for high dynamic range imaging

Inventors: Mohit Gupta, Tomoo Mitsunaga, Daisuke Iso, Shree Nayar

Patent granted, December 2018: US 9,648,248 B2

Structured Light for 3D Shape Reconstruction Subject to Global Illumination

Inventors: Mohit Gupta, Ashok Veeraraghavan, Amit Agrawal

Patent granted, August 2014: US 8,811,767 B2

Video Camera for Acquiring Images with Varying Spatio-Temporal Resolutions

Inventors: Mohit Gupta, Ashok Veeraraghavan, Amit Agrawal, Srinivasa Narasimhan

Publication number US 2011/0243442 A1

Research Grants

As PI:

Quanta Sensing for Next Generation Quantum Computing

Research Forward (UW Internal) Award, 2024-2026

Co-PIs: Mark Saffman (Physics), Swamit Tannu (CS), Andreas Velten (BMI)

Total Funding: \$500K

Material Probes

ONR, 2024-2027

Co-PIs: Shree Nayar (Columbia University)

Total Funding: \$900K; Gupta's Share: \$450K

Quanta Computational Imaging with Single-Photon Cameras

NSF CAREER Award, 2020-2025

Co-PIs: None

Total Funding: \$550K

Analysis of Single-Photon Sensors for Long-range 3D Imaging

Cruise, 2023-24

Co-PIs: None

Total Funding: \$125K

How many Photons are needed to Recognize an Object?

SONY Faculty Innovation Award, 2020-2025

Co-PIs: None

Total Funding: \$425K

Practical Single-Photon 3D Imaging

WARF (UW-Madison IP Office), 2020-2024

Co-PIs: None

Total Funding: \$325K

Next Generation Time-of-Flight Imaging

ONR, 2016-2019

Co-PIs: Shree Nayar (Columbia University)

Total Funding: \$650K; Gupta's Share: \$450K

Time-of-Flight Cameras

Sony Corp. (Research Gift), 2017-2018

Co-PIs: None

Total Funding: \$70K

Hierarchical Visual Codes

Snap Research (Research Gift), 2020

Co-PIs: None

Total Funding: \$20K

Practical Time-of-Flight Imaging

Draper Technology Innovation Fund (UW Internal) Award, 2020-2021

Co-PIs: None

Total Funding: \$50K

Weak 3D Cameras

UW Internal Fall Competition, 2021-2022

Co-PIs: None

Total Funding: \$40K

Single-Photon 3D Imaging

UW Internal Fall Competition, 2019-2020

Co-PIs: None

Total Funding: \$40K

From One Photon to a Billion: Extreme Dynamic Range Imaging with Single Photon Sensors

Draper Technology Innovation Fund (UW Internal) Award, 2018-2019

Co-PIs: Andreas Velten (U. Wisconsin)

Total Funding: \$50K; Gupta's Share: \$25K

Extreme Motion Cameras

UW Internal Fall Competition, 2018-2019

Co-PIs: None

Total Funding: \$40K

As Co-PI:

Scene Recovery Using an Extended Plenoptic Function

DARPA, 2016-2020

PIs: Srinivasa Narasimhan (CMU) and Andreas Velten (U. Wisconsin)

Total funding: ~ \$5.5 million; Gupta's share: ~\$850K

Characterization, Mitigation, and Management of Active 3D Camera Interference

NSF, 2021-2025

PI: Suman Banerjee (U. Wisconsin)

Total funding: \$1 million; Gupta's share: ~\$350K

Supporting Distributed Machine Learning Applications for the Nomadic Edge

NSF and Intel Research, 2020-2023

PI: Suman Banerjee (U. Wisconsin)

Total funding: \$900K; Gupta's share: ~\$150K

Teaching

A summary of end-of-semester teaching evaluations, based on the following questions:

- **Q1: Did the instructor create a positive, engaging learning environment?**
Range of Available Responses (1–7); 1 - Not at all; 4 - Neutral; 7 - Completely
- **Q2: Would you recommend this instructor to your fellow students?**
Range of Available Responses (1–7); 1 - Not at all; 4 - Neutral; 7 - Completely

Table 1: Summary of teaching evaluations at U. Wisconsin-Madison. The numerical values in the Q1 and Q2 columns indicate the mean values aggregated over the student responses to the corresponding survey question.

Semester	Course	Number of Students	Q1	Q2
Spring 2021	Graduate Computer Vision	70	6.22	6.12
Fall 2020	Ugrad. Computer Vision	50	6.48	6.26
Spring 2020	Graduate Computer Vision	64	5.91	5.64
Spring 2019	Graduate Computer Vision	65	6.33	5.75
Fall 2018	Computational Photography	142	5.65	4.48
Spring 2018	Graduate Computer Vision	82	6.16	6.04
Spring 2017	Graduate Computer Vision	58	6.20	5.85
Spring 2016	Graduate Computer Vision	53	6.45	6.42

Talks

Shedding Light on 3D Cameras

VASC Seminar, Carnegie Mellon University, Robotics Institute (April 2024)
 Keynote Talk, Workshop on Visual Odometry and Applications, IEEE CVPR (June 2023)
 NYU Courant CS Colloquium (October 2022)
 Magic Leap Seminar (September 2022)
 Cruise Seminar (March 2022)
 University of California Berkeley (September 2021)
 Georgia Tech. (September 2021)
 Cornell University (October 2021)
 Google Research (October 2021)

A Coding Theory of 3D Cameras

Invited Talk, Mathematics of Computer Vision, Joint Mathematics Meetings (January 2024)

Computational Imaging, One Photon at a Time

Disney Research (August 2024)

Snap Labs (July 2024)

Meta Reality Labs (June 2024)

Keynote Talk, Workshop on Computational Cameras and Displays, IEEE CVPR (June 2022)

Keynote Talk, Workshop on Mobile Intelligent Photography and Imaging, ECCV (October 2022)

SONY Distinguished Engineer Professor Lecture Series (February 2022)

University of Florida (April 2021)

Stanford University SCIEN Seminar Series (October 2020)

Towards Next Generation 3D Cameras

Omron R&D Center, Kyoto, Japan (May 2017)

SONY R&D Center, Atsugi, Tokyo, Japan (May 2017)

Oculus Research, Seattle (March 2016)

University of Washington, Seattle (June 2015)

Amazon, Seattle (June 2015)

Microsoft Research Labs, Seattle (June 2015)

Robotics Institute, Carnegie Mellon University (April 2015)

University of Wisconsin-Madison (December 2014)

Time-of-Flight Revolution

Dagstuhl Seminar on Computational Imaging (May 2015)

Workshop on Computational Photography and Intelligent Cameras, UCLA (February 2015)

MIT Media Labs (November 2014)

Keynote talk, CCD Workshop at IEEE CVPR (June 2014)

Measuring 3D Shape When Light Misbehaves

University of Toronto (June 2011)

Harvard University (June 2011)

Probing Scenes with Programmable Illumination

Intel Research Labs, Seattle (April 2010)

University of California, Berkeley (June 2010)

Columbia University (June 2010)

Scene Recovery in the presence of Global Light Transport

Stony Brook University (July 2009)

Columbia University (July 2009)

EXHIBIT B

From: Li, Benjamin (US) <benjamin.li@us.kwm.com>

Sent: Monday, November 18, 2024 11:18 AM

To: Richard de Bodo <rdebodo@rimonlaw.com>

Cc: John Handy <john.handy@rimonlaw.com>; Creality <creality@us.kwm.com>; DeVincenzo, Michael (US) <michael.deVincenzo@us.kwm.com>; Artec <Artec@rimonlaw.com>

Subject: Artec-Creality/ Disclosure of Confidential Information

Hi Richard,

Please find attached the CVs and signed protective orders for Adam Falconer and Mohit Gupta, designating them to receive Protected Material pursuant to 5(e) of the protective order. Similarly pursuant to the protective order, please let us know if Artec has any objections to the disclosure of Protected Material to Mr. Falconer or Mr. Gupta within the next 10 days.

Regards,
Ben

**UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF NEW YORK**

ARTEC EUROPE S.À.R.L.,

Plaintiff,

v.

SHENZHEN CREALITY 3D
TECHNOLOGY CO., LTD.,

Defendant,

v.

KICKSTARTER PBC,

Cross-Claimant.

Case No. 1:22-1676 (WFK)(VMS)

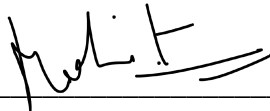
**APPENDIX A
UNDERTAKING OF EXPERTS OR
CONSULTANTS REGARDING
PROTECTIVE ORDER**

I, Mohit Gupta, declare that:

1. My address is 910 Cornell Ct., Madison WI 53705, USA. My current employer is University of Wisconsin-Madison. My current occupation is Associate Professor, Computer Sciences.
2. I have received a copy of the Protective Order in this action. I have carefully read and understand the provisions of the Protective Order.
3. I will comply with all of the provisions of the Protective Order. I will hold in confidence, will not disclose to anyone not qualified under the Protective Order, and will use only for purposes of this action any information designated as “CONFIDENTIAL,” “RESTRICTED – ATTORNEYS’ EYES ONLY,” or “RESTRICTED CONFIDENTIAL SOURCE CODE” that is disclosed to me.

4. Promptly upon termination of these actions, I will return all documents and things designated as “CONFIDENTIAL,” “RESTRICTED – ATTORNEYS’ EYES ONLY,” or “RESTRICTED CONFIDENTIAL SOURCE CODE” that came into my possession, and all documents and things that I have prepared relating thereto, to the outside counsel for the party by whom I am employed.
5. I hereby submit to the jurisdiction of this Court for the purpose of enforcement of the Protective Order in this action.

I declare under penalty of perjury that the foregoing is true and correct.

Signature  _____

Date November 11, 2024

EXHIBIT C

From: Richard de Bodo <rdebodo@rimonlaw.com>

Sent: Friday, November 29, 2024 1:51 PM

To: Wizenfeld, Charles (US) <charles.wizenfeld@us.kwm.com>; DeVincenzo, Michael (US) <michael.deVincenzo@us.kwm.com>

Cc: Li, Benjamin (US) <benjamin.li@us.kwm.com>; Creality <creality@us.kwm.com>; Artec <Artec@rimonlaw.com>; John Handy <john.handy@rimonlaw.com>

Subject: Artec-Creality/ Disclosure of Confidential Information

Charles, my colleague John is unfortunately traveling today and this weekend, and our office (like yours) has been closed yesterday and today. We are available to meet and confer Monday at 2pm ET or after. Your statements about the Protective Order and the obligations it purportedly imposes are not accurate. As a courtesy, Artec responds that its concerns relating to Mr. Gupta include, among other matters, his work as co-founder and scientific advisor of Ubicept Inc., his work as a research scientist of Cruise LLC, and his work with the WISIONLab. In an effort to resolve these concerns, Artec requests that Defendants please provide as soon as possible additional detail about Mr. Gupta's work on these matters and any other similar work he is doing. Thank you.

Regards,

Rich

Richard de Bodo | Partner

RIMÓN

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This e-mail is sent by a law firm and contains information that may be confidential or privileged. If you have received this communication in error, please reply to the sender (only) and then please delete this message from your inbox as well as any copies. Thank you.

From: Wizenfeld, Charles (US) <charles.wizenfeld@us.kwm.com>

Sent: Friday, November 29, 2024 9:32 AM

To: DeVincenzo, Michael (US) <michael.deVincenzo@us.kwm.com>; Richard de Bodo <rdebodo@rimonlaw.com>

Cc: Li, Benjamin (US) <benjamin.li@us.kwm.com>; Creality <creality@us.kwm.com>; Artec <Artec@rimonlaw.com>; John Handy <john.handy@rimonlaw.com>

Subject: RE: Artec-Creality/ Disclosure of Confidential Information

Rich, we have not heard back regarding Mike's below email. As Artec provided no alleged reason for objecting to Mr. Gupta's receipt of confidential information under the Protective Order, this appears to be yet another effort by Artec to delay. While the deadline has already passed for Artec to state an objection, as a courtesy we are available to discuss this issue Monday as long as Artec discloses the specific basis for objecting by COB today. Otherwise, we will understand Defendants are free to disclose Artec confidential information to Mr. Gupta.

Regards,
Charles

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E charles.wizenfeld@us.kwm.com

PROFILE

500 Fifth Avenue, 50th Floor, New York, NY 10110
kwm.com

From: DeVincenzo, Michael (US) <michael.deVincenzo@us.kwm.com>

Sent: Thursday, November 28, 2024 4:10 PM

To: Richard de Bodo <rdebodo@rimonlaw.com>

Cc: Li, Benjamin (US) <benjamin.li@us.kwm.com>; Creality <creality@us.kwm.com>; Artec <Artec@rimonlaw.com>; John Handy <john.handy@rimonlaw.com>

Subject: Re: Artec-Creality/ Disclosure of Confidential Information

We are available Friday please let us know a time you are available and basis for objection.
Mike
Sent from my iPhone

On Nov 28, 2024, at 3:56 PM, Richard de Bodo <rdebodo@rimonlaw.com> wrote:

Hi Benjamin,

Based on its current understanding of the facts, Artec objects to the disclosure of its Protected Material to Mohit Gupta pursuant to the Protective Order, including Paragraph 5(e). Artec requests to confer with Defendants to explore possible ways of resolving its objection. Please let us know when Defendants are available to confer. Thank you.

Regards,

Rich